

--	--	--	--	--	--	--	--	--	--



**DHANALAKSHMI SRINIVASAN COLLEGE  
OF ARTS & SCIENCE FOR WOMEN  
(AUTONOMOUS)**

(For Candidates admitted from 2020-2021 onwards)

**PG DEGREE EXAMINATIONS APRIL - 2021**

**M.Sc., -BIOTECHNOLOGY**

**PHARMACEUTICAL BIOTECHNOLOGY**

**Time: 3 Hrs**

**Max.Marks: 75**

**PART - A**

**CHOOSE THE CORRECT ANSWER**

**(10X1=10)**

1. The strongest hydrogen bond acceptor
  - a) Amine nitrogen
  - b) Aniline nitrogen
  - c) Carboxylate oxygen
  - d) Amide nitrogen
2. \_\_\_\_\_ is not a neurotransmitter
  - a) Cyclic AMP
  - b) Noradrenaline
  - c) Dopamine
  - d) Acetylcholine
3. Pharmacodynamics considers:
  - a) The way in which the body affects the drug
  - b) Drug Targeting
  - c) The effects of the drug on the body and the mode of drug action
  - d) Drug metabolism
4. The duration of action of a drug is dependent of its
  - a) Plasma and tissue binding
  - b) Metabolism
  - c) Tubular filtration and secretion
  - d) All the above
5. Factor which can effect the absorption of drug is
  - a) Dissolution rate
  - b) Particle Size
  - c) Lipid Solubility
  - d) All the above
6. A prodrug is
  - a) An inactive drug that is transformed in the body to an active metabolite
  - b) The prototype member of a class of drugs
  - c) A drug that is stored in body tissues and is then gradually released in the circulation
  - d) The oldest member of a class of drugs
7. \_\_\_\_\_ is not acts as preservative.
  - a) Methyl paraben
  - b) Propyl paraben
  - c) Benzoic acid
  - d) Carbon monoxide
8. The activities carry by the company to design and produce a differentiated container for particular productis classified as
  - a) Guarentees
  - b) Warranties
  - c) Labelling
  - d) Packaging
9. Dry granulation dosen't involve \_\_\_\_\_ step.
  - a) Blending
  - b) wet screening
  - c) Dry screening
  - d) Drying

10. Capsule shell is prepared from

- a) Gelatin      b) Gluten      c) Pectin      d) Albumin

**PART – B**

**ANSWER ALL THE QUESTIONS**

**(5X7=35)**

11. a) Give short note on Drug development process.

**(OR)**

b) Explain about general steps in the design a new drug.

12. a) Write an account on Drug Targeting

**(OR)**

b) Explain the principle of drug action

13. a) Illustrate hazardous industrial chemical substances.

**(OR)**

b) Write a short note on fermentation

14. a) Brief discuss about preservation of drugs.

**(OR)**

b) Write a short note on capsule preparation

15. a) Brief note on function of analgesics

**(OR)**

b) Give a brief account on function of hormones and its uses.

**PART – C**

**ANSWER ANY THREE QUESTIONS**

**(3X10=30)**

16. Give a detailed account on types of therapeutic agent and their uses.

17. Explain the principle of drug metabolism.

18 Describe the manufacturing process of drug and application

19. Describe about the analytical methods used in drug manufacture.

20. Explain in detailed account on structure and function of antibiotics